

## SG109 Conventional Sound Strobe

### SPECIFICATIONS

Operating Voltage Range:	16 to 30 VDC Volts
Alarm Current	100 to 150 mA @ 24 VDC
Strobe Flash Rate:	1 flash per second
Strobe Lifetime:	Minimum 40000 times
Alarm Sound Intensity:	Minimum 100dB
Alarm Sound Tune:	Selectable: I-Ambulance, II-Police Car, III- Fire-engine
Operating Humidity Range:	10% to 93% Relative Humidity, Non-condensing
Operating Temperature Range:	-10°C to 50°C (14°F to 122°F)
Input terminal Wire Gauge:	12 to 18 AWG
Dimensions:	Length 160mm, Width 117mm, Depth 46mm
Weight:	Net Weight 236g, Gross Weight 285g

### BEFORE INSTALLING

**NOTICE:** This manual should be left with the owner/user of this equipment.

### GENERAL DESCRIPTION

The SG109 Sound Strobe of notification appliances offers a wide range of Sound/strobes, for wall and ceiling applications, indoors and outdoors. They are designed to be used in 24 volt DC systems.

### Loop Design and Wiring

The system designer must make sure that the total current drawn by the devices on the loop does not exceed the current capability of the panel supply, and that the last device on the circuit is operated within its rated voltage. When calculating the voltage available to the last device, it is necessary to consider the voltage drop due to the resistance of the wire. The thicker the wire, the smaller the voltage drops. Wire resistance tables can be obtained from electrical handbooks.

### INSTALLATION

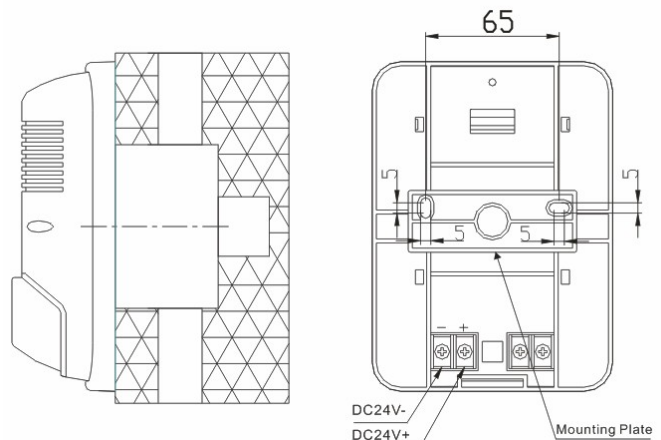
**NOTE:** All wiring must conform to applicable local

codes, ordinances, and regulations.

### Mounting Indoor Wall or Ceiling Products

1. Attach mounting plate to junction box .
2. Connect field wiring to terminals
3. To attach product to mounting plate.
4. Secure product by tightening the two mounting screws in the front of the product housing.

**Figure 1. Install and Wiring diagram:**



**Please refer to insert for the Limitations of Fire Alarm Systems**

### THREE-YEAR LIMITED WARRANTY

Convoy Security warrants its enclosed smoke detector to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. Convoy Security makes no other express warranty for this smoke detector. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the smoke detector which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning Convoy Security's technical support number for a Return Authorization number, send defective units postage prepaid to Convoy Security local representative office. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.